

SYSTEM AND METHOD FOR STATISTICALLY DIRECTING
AUTOMATIC GAIN CONTROL

ABSTRACT OF THE DISCLOSURE

The present invention is directed to a system and method which statistically determines when regularly occurring interference events of a predictable duration will occur, for example radar pulses and dynamically adjusts an automatic gain control (AGC) for RF data transmissions accordingly. The repetition rate and width of radar pulses are regular. By averaging and watching for correlations, the present AGC identifies the pulse rate and pulse widths and over a fairly short period of time predicts when the next pulse is coming. When the next pulse occurs, the AGC is adjusted to react accordingly. The AGC can raise or lower gain levels for the duration of the pulse; or ignore the pulse, if it is of a very short duration, so that the AGC level will coast through the event.